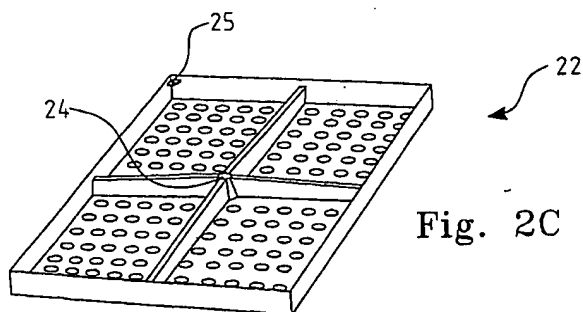
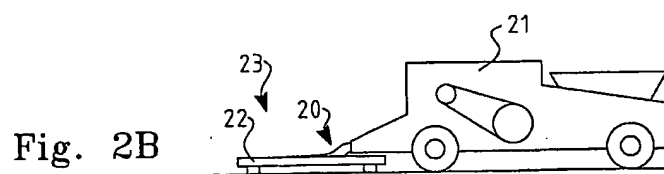
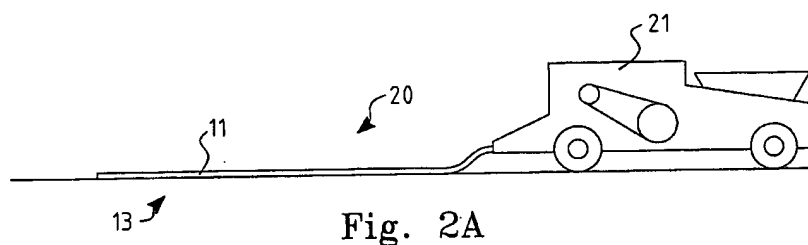
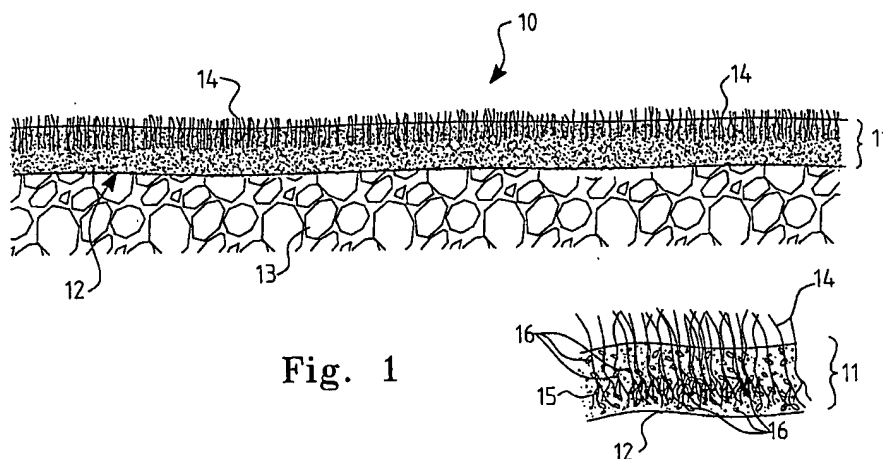


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Performance Testing
for
Recycled Rubber Replacement Soil Based Turf Growing Medium

| Test Description | Trial No. 1 | Specification Acceptance Range |
|---------------------------------|----------------------|--|
| Field Testing | 2/8/01 | |
| Football Rebound Resilience | 50% | 20 to 50% |
| Clegg Impact Soil Tester Rating | 20 | 20 to 80g |
| Traction | 42 N.m | Minimum 25 N.m Preferred |
| Distance Rolled by a Football | 4.1m | 3 to 12m Preferred |
| Surface Evenness | 3.0mm | Maximum 8mm Standard Deviation Preferred |
| Depth of Grass | 20mm | |
| Type of Grass | Kikuyu | |
| Thickness of Rubber Profile | 75 to 80mm | |
| Ball | REAL: Size 5:437.8g+ | |

Notes:

- Specifications from Standards for the Playing Quality of Natural Turf for Association Football by P.M Canaway, M.J Bell, G Holmes and S.W. Baker
- + Calibrated inflation to rebound between 57 to 59% when dropped onto concrete and a drop height of 3m.
- Clegg Impact Hammer: Mass 0.5kg ; Drop 300mm ; 50mm Diameter
- Weather conditions: Fine, dry and between 17 to 20° Celcius
- The rubber soil profile was moist and the test area was made up 1.1m square plates of the grass rubber soil profile

Fig. 3

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**Performance Testing
for
Recycled Rubber Replacement Soil Based Turf Growing Medium**

| Test Description | Trial No. 2 | Specification Acceptance Range |
|---------------------------------|----------------------|--|
| Field Testing | 2/8/01 | |
| Football Rebound Resilience | 49% | 20 to 50% |
| Clegg Impact Soil Tester Rating | 15 | 20 to 80g |
| Traction | 59 N.m | Minimum 25 N.m Preferred |
| Distance Rolled by a Football | 4.1m | 3 to 12m Preferred |
| Surface Evenness | 2.3mm | Maximum 8mm Standard Deviation Preferred |
| Depth of Grass | 20mm | |
| Type of Grass | Kikuyu | |
| Thickness of Rubber Profile | 90mm | |
| Ball | REAL: Size 5:437.8g+ | |

Notes:

- Specifications from Standards for the Playing Quality of Natural Turf for Association Football by P.M Canaway, M.J Bell, G Holmes and S.W. Baker
- + Calibrated inflation to rebound between 57 to 59% when dropped onto concrete and a drop height of 3m.
- Clegg Impact Hammer: Mass 0.5kg ; Drop 300mm ; 50mm Diameter
- Weather conditions: Fine, dry and between 17 to 20° Celcius
- The rubber soil profile was moist and the test area was made up 1.1m square plates of the grass rubber soil profile

Fig. 4

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Performance Testing
for
Recycled Rubber Replacement Soil Based Turf Growing Medium

| Test Description | Trial No.3 | Specification Acceptance Range |
|---------------------------------|----------------------|--|
| Field Testing | 2/8/01 | |
| Football Rebound Resilience | 45% | 20 to 50% |
| Clegg Impact Soil Tester Rating | 22 | 20 to 80g |
| Traction | 42 N.m | Minimum 25 N.m Preferred |
| Distance Rolled by a Football | - | 3 to 12m Preferred |
| Surface Evenness | 3mm | Maximum 8mm Standard Deviation Preferred |
| Depth of Grass | 15mm | |
| Type of Grass | Couch | |
| Thickness of Rubber Profile | 70mm | |
| Ball | REAL: Size 5:437.8g+ | |

Notes:

- Specifications from Standards for the Playing Quality of Natural Turf for Association Football by P.M Canaway, M.J Bell, G Holmes and S.W. Baker
- + Calibrated inflation to rebound between 57 to 59% when dropped onto concrete and a drop height of 3m.
- Clegg Impact Hammer: Mass 0.5kg ; Drop 300mm ; 50mm Diameter
- Weather conditions: Fine, dry and between 17 to 20° Celcius
- The rubber soil profile was moist and the test area was made up 1.1m square plates of the grass rubber soil profile

Fig. 5

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Performance Testing
of
Turf Growing Medium

| Test Description | Trial Rubber | Trial SFS | Trial SCG | Specification Acceptance Range |
|---------------------------------|----------------------|--------------|--------------|--|
| Field Testing | 2/8/01 | 16/8/01 | 16/8/01 | |
| Football Rebound Resilience | 50 % | 38 % | 45 % | 20 to 50% |
| Clegg Impact Soil Tester Rating | 20 g | 13 g | 16 g | 20 to 80g |
| Traction | 42 N.m | 55 N.m | 65 N.m | Minimum 25 N.m Preferred |
| Distance Rolled by a Football | 4.1 m | 3.8 m | 4.7 m | 3 to 12m Preferred |
| Surface Evenness | 3.0 mm | 4.8 mm | 1.8 mm | Maximum 8mm Standard Deviation Preferred |
| Type of Profile | Rubber | Sand/Soil | Sand | |
| Depth of Grass | 20 mm | 20mm to 35mm | 25mm to 30mm | |
| Type of Grass | Kikuyu | Couch Legend | Couch Legend | |
| Thickness of Soil Profile | 75mm to 80mm | > 300 mm | 300mm | |
| Ball | REAL: Size 5:437.8g+ | | | |

Fig. 6

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resilience test results

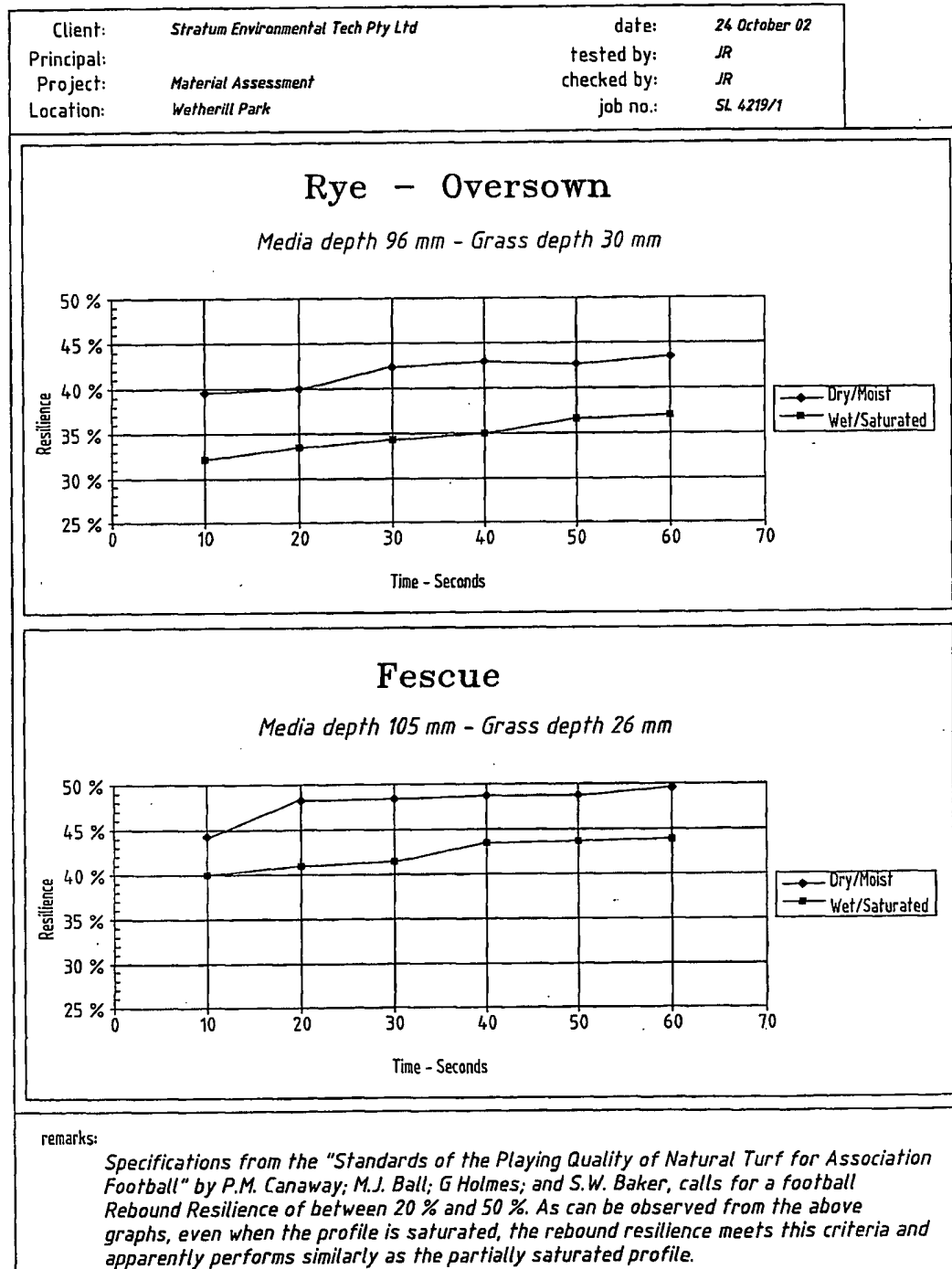


Fig. 7

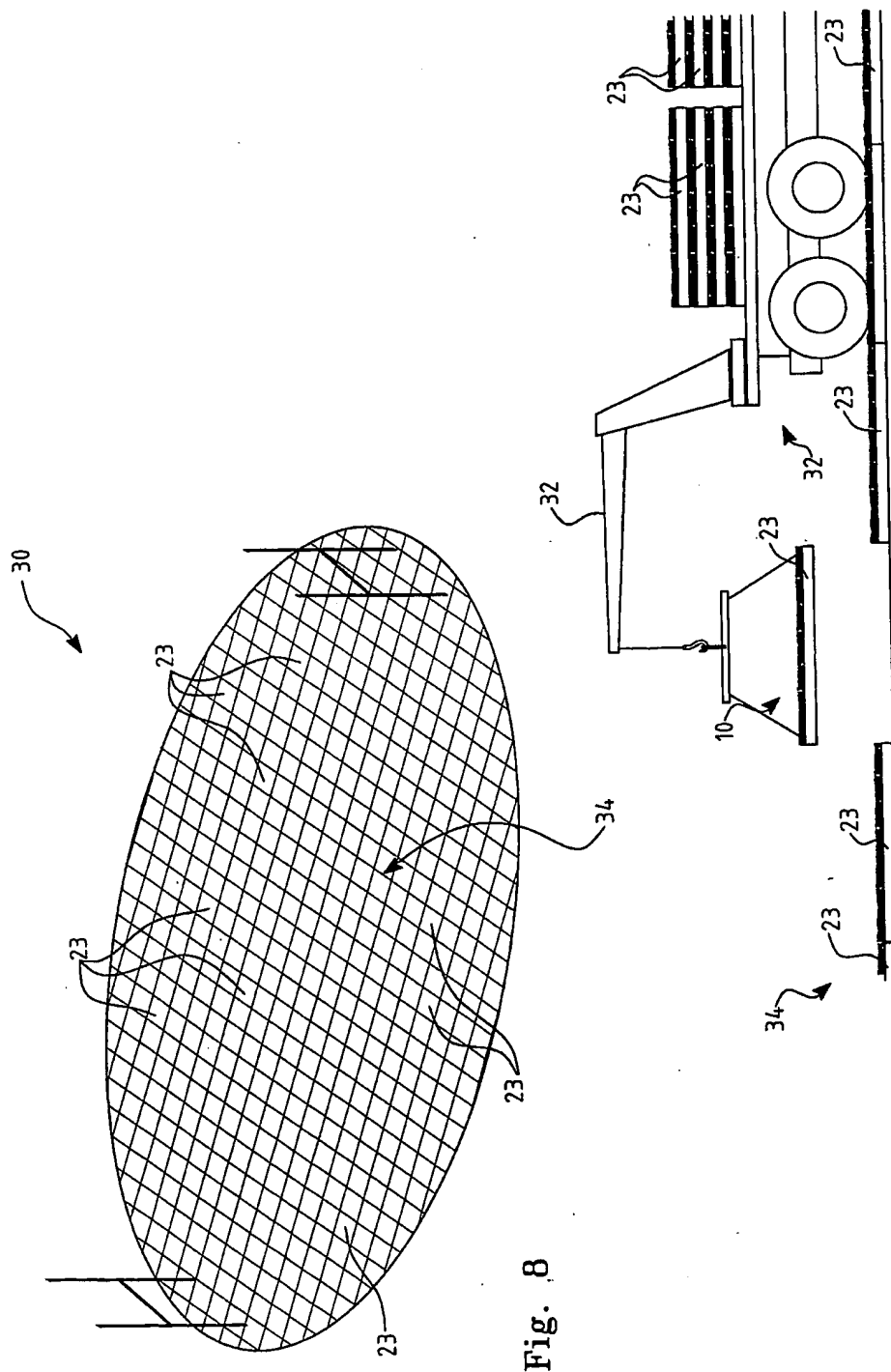


Fig. 9

Fig. 8

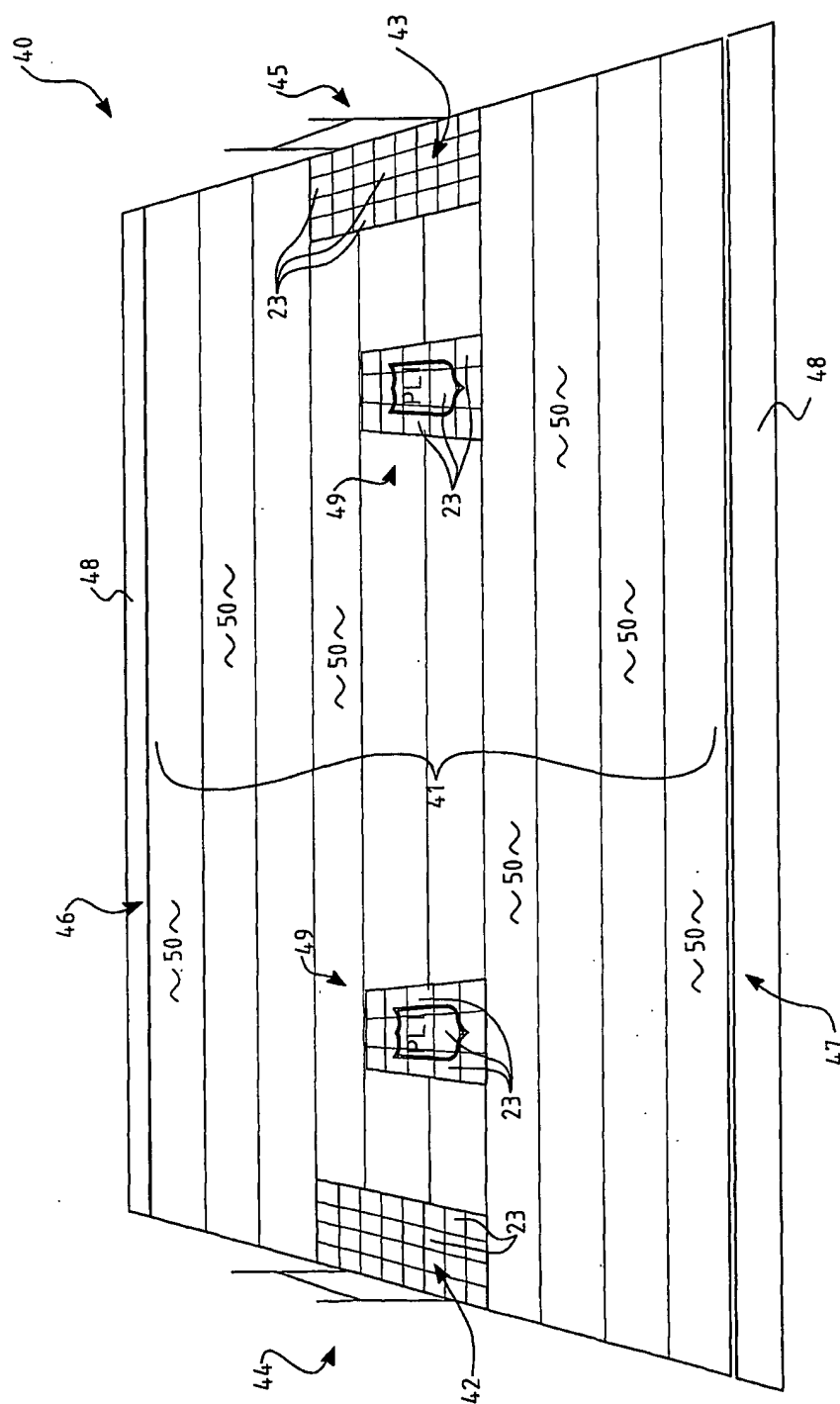


Fig. 10

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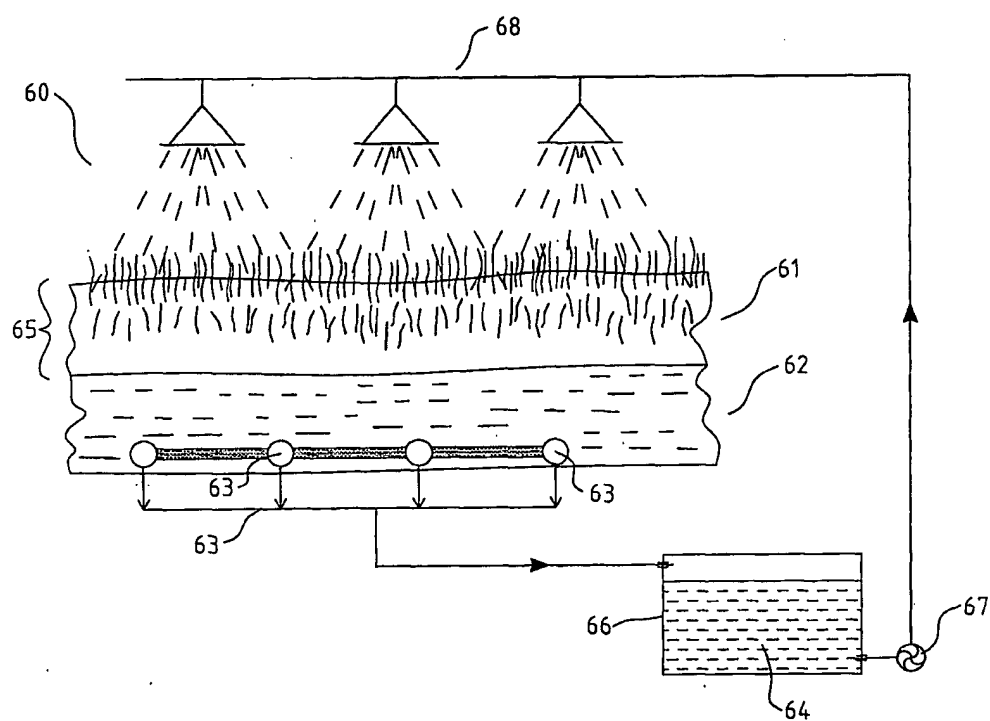


Fig. 11